

Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-391



Standard Missile-6 (SM-6)

As of FY 2015 President's Budget

Defense Acquisition Management Information Retrieval (DAMIR)

maintaining the data needed, and c including suggestions for reducing	lection of information is estimated to ompleting and reviewing the collect this burden, to Washington Headqu ald be aware that notwithstanding and DMB control number.	ion of information. Send comments arters Services, Directorate for Info	s regarding this burden estimate or or street	or any other aspect of the property of the contract of the con	his collection of information, Highway, Suite 1204, Arlington		
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Common Acronyms and Abbreviations

Acq O&M - Acquisition-Related Operations and Maintenance

APB - Acquisition Program Baseline

APPN - Appropriation

APUC - Average Procurement Unit Cost

BA - Budget Authority/Budget Activity

BY - Base Year

DAMIR - Defense Acquisition Management Information Retrieval

Dev Est - Development Estimate

DoD - Department of Defense

DSN - Defense Switched Network

Econ - Economic

Eng - Engineering

Est - Estimating

FMS - Foreign Military Sales

FY - Fiscal Year

IOC - Initial Operational Capability

\$K - Thousands of Dollars

LRIP - Low Rate Initial Production

\$M - Millions of Dollars

MILCON - Military Construction

N/A - Not Applicable

O&S - Operating and Support

Oth - Other

PAUC - Program Acquisition Unit Cost

PB - President's Budget

PE - Program Element

Proc - Procurement

Prod Est - Production Estimate

QR - Quantity Related

Qty - Quantity

RDT&E - Research, Development, Test, and Evaluation

SAR - Selected Acquisition Report

Sch - Schedule

Spt - Support

TBD - To Be Determined

TY - Then Year

UCR - Unit Cost Reporting

Program Information

Program Name

Standard Missile-6 (SM-6)

DoD Component

Navy

Responsible Office

Responsible Office

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References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 26, 2010

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated August 9, 2013

Mission and Description

The Standard Missile-6 (SM-6) Extended Range Active Missile (ERAM) is designed to provide ship self-defense, fleet area defense, and theater air defense for sea and littoral forces. Raytheon Missile Systems has been chosen as the sole source contractor for SM-6 ERAM Block I. The SM-6 ERAM is a surface-to-air supersonic missile, launched from AEGIS Cruisers and Destroyers, capable of successfully engaging manned and unmanned, fixed or rotary wing aircraft and land attack or Anti-Ship Cruise Missiles in flight. The SM-6 ERAM program is an evolutionary, capabilities based acquisition program that will use spiral development to produce an initial Block I capability, with follow-on blocks to pace emerging threat systems as required. In addition to an extended range, the initial SM-6 ERAM Block I will have active missile seeker homing for improved flight responsiveness, guidance, sub-clutter visibility, and countermeasures resistance over present SM-2 missiles and will be "Engage-On-Remote" intercept capable.

SM-6 will be an effective weapon that will apply timely, precise, accurate and lethal fire power against cruise missile threats and launch platforms in a fleet area defense role and over hostile territory. SM-6 will provide in-flight destruction capabilities over the total flight path. SM-6 may be employed in concert with the developing Joint Theater Air and Missile Defense Family of Systems to provide continuous protection to forward deployed maneuver forces as well as theater rear assets.

Executive Summary

The Navy completed supplemental testing to inform the Full Rate Production (FRP) decision held on May 13, 2013. The program was granted authority to enter FRP and the test community found SM-6 to be operationally effective and suitable as documented in the SM-6 FRP Acquisition Decision Memorandum dated July 15, 2013.

IOC was achieved on November 26, 2013.

The program commenced Follow-On Operational Test and Evaluation in November 2013.

The SM-6 LRIP Lot 4 FY 2012 production contract was definitized on July 5, 2013. The SM-6 FRP FY 2013 production contract was definitized on September 26, 2013.

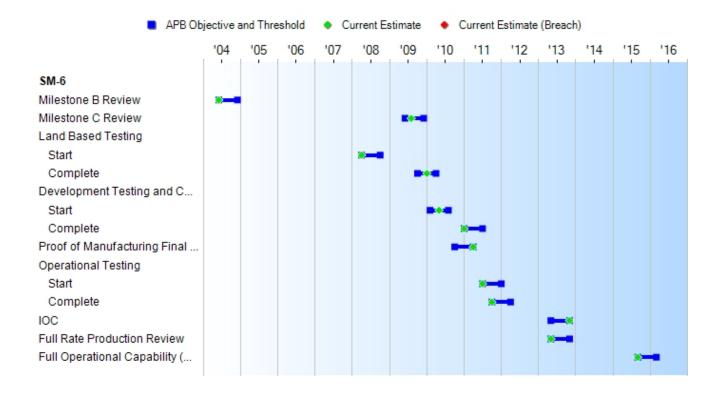
The SM-6 program received authorization to increase the procurement profile from 1200 missiles to 1800 missiles as documented in the Navy Electronic Resources and Requirements Review Board memorandum, dated March 18, 2013.

There are no significant software-related issues with this program at this time.

Threshold Breaches

APB Breaches							
Schedule							
Performance							
Cost	RDT&E						
	Procurement						
	MILCON						
	Acq O&M						
O&S Cost							
Unit Cost	PAUC						
	APUC						
Nunn-McC	urdy Breache	S					
Current UCR B	Baseline						
	PAUC	None					
	APUC	None					
Original UCR E	Baseline						
	PAUC	None					
	APUC	None					

Schedule



Milestones	SAR Baseline Prod Est	Proc	ent APB luction e/Threshold	Current Estimate	
Milestone B Review	JUN 2004	JUN 2004	DEC 2004	JUN 2004	
Milestone C Review	JUN 2009	JUN 2009	DEC 2009	AUG 2009	
Land Based Testing					
Start	APR 2008	APR 2008	OCT 2008	APR 2008	
Complete	OCT 2009	OCT 2009	APR 2010	JAN 2010	
Development Testing and Combined Development and Operational Testing					
Start	FEB 2010	FEB 2010	AUG 2010	MAY 2010	
Complete	APR 2010	JAN 2011	JUL 2011	JAN 2011	
Proof of Manufacturing Final Review	OCT 2010	OCT 2010	APR 2011	APR 2011	
Operational Testing					
Start	AUG 2010	JUL 2011	JAN 2012	JUL 2011	
Complete	SEP 2010	OCT 2011	APR 2012	OCT 2011	
IOC	MAR 2011	MAY 2013	NOV 2013	NOV 2013	(Ch-1
Full Rate Production Review	JUN 2011	MAY 2013	NOV 2013	MAY 2013	
Full Operational Capability (FOC)	SEP 2015	SEP 2015	MAR 2016	SEP 2015	

Change Explanations

(Ch-1) The IOC current estimate changed from May 2013 to November 2013 to reflect the actual achievement date.

Memo

The extended threshold for FOC is defined in the SM-6 Capability Production Document.

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Classified Performance information is provided in the classified annex to this submission.

Track to Budget

General Memo

The SM-6 Development was funded under Program Element (PE) 0604366N - Project 3092.

The FY 2015 PB includes RDT&E funding for other STANDARD Missile improvements, none of which are included in the SM-6 development program baseline: Insensitive Munitions, Portable All-Up Round Built In Test Tester, Naval Integrated Fire Control - Counter Air, and Future Capability Demonstration.

The FY 2015 PB for SM-6 procurement (APPN 1507, PE 0204228N) includes Line Item 223400 and 612000. Both are shared with SM-2 through FY 2011. All up rounds are reflected in Budget Line Item (BLI) 2234 P1-7. Initial Spares are included in BLI 6120 P1-35.

RDT&E

Ар	pn	ВА	PE		
Navy	1319	05	0604366N		_
	Project		Name		
	3092		Standard M	lissile 6 Program	(Shared)
	Notes:		RDT&E fun	the last year of SM-6 ding related to the rogram of Record as the SAR.	

Procurement

Ар	pn	Apı	ВА	PE	
Navy	1507	Navy	02	0204228N	_
	Line Item			Name	
	223400			STANDARD Missile	-
	Notes:			Shared with SM-2 through FY 2011.	
Navy	1507	Navy	06	0204228N	
	Line Item			Name	
	612000			Spares and Repair Parts	(Shared)
	Notes:			Shared with SM-2 in Standard Missile Replenishment Spares line through FY 2011 and continues to be shared with other Navy programs.	

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

	B	/2004 \$M		BY2004 \$M		TY \$M	
Appropriation	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	861.6	834.5	918.0	834.7	963.2	933.4	933.4
Procurement	4419.5	6854.1	7539.5	6585.8	5634.0	9623.8	9207.0
Flyaway				5771.7			8086.6
Recurring				5747.6			8058.5
Non Recurring				24.1			28.1
Support				814.1			1120.4
Other Support				577.8			788.1
Initial Spares				236.3			332.3
MILCON	0.0	0.0		0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0		0.0	0.0	0.0	0.0
Total	5281.1	7688.6	N/A	7420.5	6597.2	10557.2	10140.4

Confidence Level for Current APB Cost 50% -

The Independent Cost Estimate (ICE) to support SM-6 Full Rate Production Decision, like all life-cycle cost estimates previously performed by the Office of the Secretary of Defense, Cost Assessment and Program Evaluation (OSD, CAPE), is built upon a product-oriented work breakdown structure, based on historical actual cost information to the maximum extent possible, and, most importantly, based on conservative assumptions that are consistent with actual demonstrated contractor and government performance for a series of acquisition programs in which the Department has been successful.

It is difficult to calculate mathematically the precise confidence levels associated with life-cycle cost estimates prepared for Major Defense Acquisition Programs (MDAPs). Based on the rigor in methods used in building estimates, the strong adherence to the collection and use of historical cost information, and the review of applied assumptions, we project that it is equally likely that the estimate will prove low or too high for execution of the program described.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	1200	1800	1800
Total	1200	1800	1800

SM-6 received authorization to increase the procurement profile from 1200 missiles to 1800 missiles as documented in the Navy Electronic Resources and Requirements Review Board memorandum, dated March 18, 2013.

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	933.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	933.4
Procurement	1162.3	386.9	462.2	529.9	545.9	600.1	614.6	4905.1	9207.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	2095.7	386.9	462.2	529.9	545.9	600.1	614.6	4905.1	10140.4
PB 2014 Total	2183.9	386.9	571.3	589.3	741.1	836.5	744.1	3722.4	9775.5
Delta	-88.2	0.0	-109.1	-59.4	-195.2	-236.4	-129.5	1182.7	364.9

Quantity	Undistributed	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	267	81	110	125	125	125	125	842	1800
PB 2015 Total	0	267	81	110	125	125	125	125	842	1800
PB 2014 Total	0	272	81	125	127	160	174	150	711	1800
Delta	0	-5	0	-15	-2	-35	-49	-25	131	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2004							25.5
2005							83.8
2006							114.8
2007							150.0
2008							172.6
2009							195.4
2010							112.6
2011							61.0
2012							17.7
Subtotal							933.4

Annual Funding BY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	RY 2004 \$M	Non End Item Recurring Flyaway BY 2004 \$M	Non Recurring Flyaway BY 2004 \$M	Total Flyaway BY 2004 \$M	Total Support BY 2004 \$M	Total Program BY 2004 \$M
2004							25.0
2005							80.0
2006							106.3
2007							135.6
2008							153.2
2009							171.3
2010							97.2
2011							51.4
2012							14.7
Subtotal	-						834.7

Annual Funding TY\$
1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2009	19	92.4		17.6	110.0	12.4	122.4
2010	11	54.5		10.5	65.0	32.7	97.7
2011	59	210.5			210.5	32.5	243.0
2012	89	272.2			272.2	80.0	352.2
2013	89	264.6			264.6	82.4	347.0
2014	81	328.9			328.9	58.0	386.9
2015	110	405.6			405.6	56.6	462.2
2016	125	475.3			475.3	54.6	529.9
2017	125	493.8			493.8	52.1	545.9
2018	125	541.5			541.5	58.6	600.1
2019	125	554.7			554.7	59.9	614.6
2020	125	585.6			585.6	70.8	656.4
2021	125	598.9			598.9	74.8	673.7
2022	125	625.3			625.3	76.9	702.2
2023	125	635.9			635.9	78.3	714.2
2024	125	653.5			653.5	80.0	733.5
2025	125	665.1			665.1	81.6	746.7
2026	92	600.2			600.2	78.2	678.4
Subtotal	1800	8058.5		28.1	8086.6	1120.4	9207.0

Annual Funding BY\$
1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2004 \$M	Non End Item Recurring Flyaway BY 2004 \$M	Non Recurring Flyaway BY 2004 \$M	Total Flyaway BY 2004 \$M	Total Support BY 2004 \$M	Total Program BY 2004 \$M
2009	19	80.0		15.2	95.2	10.8	106.0
2010	11	46.4		8.9	55.3	27.9	83.2
2011	59	175.7			175.7	27.1	202.8
2012	89	223.6			223.6	65.7	289.3
2013	89	213.8			213.8	66.6	280.4
2014	81	261.1			261.1	46.0	307.1
2015	110	315.9			315.9	44.1	360.0
2016	125	363.0			363.0	41.7	404.7
2017	125	369.8			369.8	39.0	408.8
2018	125	397.5			397.5	43.0	440.5
2019	125	399.2			399.2	43.1	442.3
2020	125	413.2			413.2	50.0	463.2
2021	125	414.3			414.3	51.7	466.0
2022	125	424.1			424.1	52.1	476.2
2023	125	422.8			422.8	52.1	474.9
2024	125	426.0			426.0	52.1	478.1
2025	125	425.1			425.1	52.1	477.2
2026	92	376.1			376.1	49.0	425.1
Subtotal	1800	5747.6		24.1	5771.7	814.1	6585.8

Low Rate Initial Production

	Initial LRIP Decision	Current Total LRIP
Approval Date	7/12/2004	4/5/2012
Approved Quantity	120	178
Reference	Milestone B ADM	LRIP Lot 4 ADM
Start Year	2009	2009
End Year	2011	2012

The SM-6 program received authorization to enter into a fourth year of LRIP as documented in the Acquisition Decision Memorandum (ADM) dated April 5, 2012. This ADM authorized the increase in the total LRIP Qty from 120 (10 percent) to 178 (15 percent) and deferred the Full Rate Production decision to FY 2013. The current authorized LRIP Qty is 19 missiles for FY 2009, 11 missiles for FY 2010, 59 missiles for FY 2011, and 89 missiles for FY 2012.

The SM-6 program built up 25 non-LRIP rounds to be test fired during the System Development and Demonstration phase of the program. All 25 missiles were expended prior to IOC.

Foreign Military Sales

None

Nuclear Costs

None

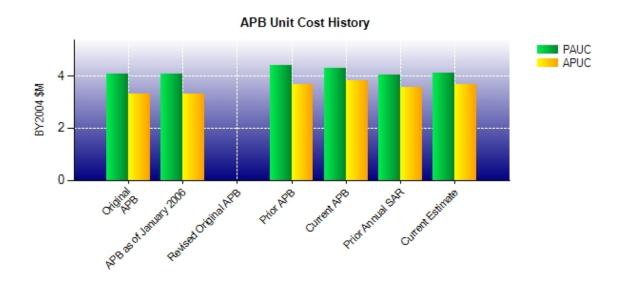
Unit Cost

Unit Cost Report

	BY2004 \$M	BY2004 \$M	
Unit Cost	Current UCR Baseline (AUG 2013 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	7688.6	7420.5	
Quantity	1800	1800	
Unit Cost	4.271	4.122	-3.49
Average Procurement Unit Cost (APU)	C)		
Cost	6854.1	6585.8	
Quantity	1800	1800	
Unit Cost	3.808	3.659	-3.91
	DV/2024 454	DV/0004 ALI	

	BY2004 \$M	BY2004 \$M	
Unit Cost	Original UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4866.3	7420.5	
Quantity	1200	1800	
Unit Cost	4.055	4.122	+1.65
Average Procurement Unit Cost (APUC	2)		
Cost	3949.6	6585.8	
Quantity	1200	1800	
Unit Cost	3.291	3.659	+11.18

Unit Cost History



		BY2004 \$M		TY	\$M
	Date	PAUC	APUC	PAUC	APUC
Original APB	JUL 2004	4.055	3.291	4.986	4.163
APB as of January 2006	JUL 2004	4.055	3.291	4.986	4.163
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	MAR 2010	4.401	3.683	5.498	4.695
Current APB	AUG 2013	4.271	3.808	5.865	5.347
Prior Annual SAR	DEC 2012	4.033	3.569	5.431	4.912
Current Estimate	DEC 2013	4.122	3.659	5.634	5.115

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial PAUC		Changes								
Dev Est	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Prod Est	
4.986	0.114	0.000	-0.046	0.000	0.153	0.000	0.291	0.512	5.498	

Current SAR Baseline to Current Estimate (TY \$M)

PAUC	PAUC Changes								
Prod Est	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Current Est
5.498	0.020	-0.376	0.137	0.000	0.154	0.000	0.201	0.136	5.634

Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial APUC	Changes								APUC
Dev Est	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Prod Est
4.163	0.085	0.000	-0.046	0.000	0.202	0.000	0.291	0.532	4.695

Current SAR Baseline to Current Estimate (TY \$M)

APUC		APUC							
Prod Est	Prod Est Econ Qty Sch Eng Est Oth Spt Total						Current Est		
4.695	0.019	-0.109	0.137	0.000	0.172	0.000	0.201	0.420	5.115

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	JUN 2004	JUN 2004	JUN 2004
Milestone C	N/A	SEP 2008	JUN 2009	AUG 2009
IOC	N/A	SEP 2010	MAR 2011	NOV 2013
Total Cost (TY \$M)	N/A	5983.3	6597.2	10140.4
Total Quantity	N/A	1200	1200	1800
Prog. Acq. Unit Cost (PAUC)	N/A	4.986	5.498	5.634

Cost Variance

	Summa	ry Then Year \$M		
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	963.2	5634.0		6597.2
Previous Changes				
Economic	+1.4	+93.9		+95.3
Quantity		+2619.6		+2619.6
Schedule		+123.0		+123.0
Engineering				
Estimating	-31.2	-20.5		-51.7
Other				
Support		+392.1		+392.1
Subtotal	-29.8	+3208.1		+3178.3
Current Changes				
Economic	-0.2	-59.0		-59.2
Quantity				
Schedule		+124.3		+124.3
Engineering				
Estimating	+0.2	+329.4		+329.6
Other				
Support		-29.8		-29.8
Subtotal		+364.9		+364.9
Total Changes	-29.8	+3573.0		+3543.2
CE - Cost Variance	933.4	9207.0		10140.4
CE - Cost & Funding	933.4	9207.0		10140.4

	Summary Base Year 2004 \$M				
	RDT&E	Proc	MILCON	Total	
SAR Baseline (Prod Est)	861.6	4419.5		5281.1	
Previous Changes					
Economic					
Quantity		+1761.1		+1761.1	
Schedule		+20.4		+20.4	
Engineering					
Estimating	-27.1	-29.2		-56.3	
Other					
Support		+252.8		+252.8	
Subtotal	-27.1	+2005.1		+1978.0	
Current Changes					
Economic					
Quantity					
Schedule					
Engineering					
Estimating	+0.2	+186.6		+186.8	
Other					
Support		-25.4		-25.4	
Subtotal	+0.2	+161.2		+161.4	
Total Changes	-26.9	+2166.3		+2139.4	
CE - Cost Variance	834.7	6585.8		7420.5	
CE - Cost & Funding	834.7	6585.8		7420.5	

Previous Estimate: December 2012

RDT&E	\$1	И
Ourmant Ohanna Fundanations	Base	Then
Current Change Explanations	Year	Year
Revised escalation indices. (Economic)	N/A	-0.2
Adjustment for current and prior escalation. (Estimating)	+0.2	+0.2
RDT&E Subtotal	+0.2	0.0

Procurement	\$N	Λ
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-59.0
Stretch-out of procurement buy profile from FY 2024 to FY 2026. (Schedule)	0.0	+124.3
Adjustment for current and prior escalation. (Estimating)	+8.5	+10.5
Decrease in FY 2012 due to contract negotiations being lower than previously estimated. (Estimating)	-11.8	-14.4
Revised estimate due to Congressional reduction in FY 2013 which resulted in a reduction in quantity to the FY 2012 procurement level. (Estimating)	-13.7	-17.0
Revised estimate due to Sequestration reductions in FY 2013, which resulted in a reduction of Round Design Agent, Navy Activity and Program Office professional services support efforts. (Estimating)	-39.3	-48.7
Increase due to production cut-in decision for the Engineering Change Proposal (ECP) for the SM-6 Block IA which resulted in a realignment of Other Support funding to Recurring Flyaway starting in FY 2018. (Estimating)	+135.2	+194.9
Decrease in Future Year Defense Plan (FYDP) for SM-6 Block I unit cost efficiencies consistent with FY 2013 contract negotiation and reprioritization of higher Navy priorities. (Estimating)	-137.9	-183.7
Revised estimate to reflect application of new outyear escalation indices. (Estimating)	-33.5	-45.1
Revised estimate for SM-6 Block I and Block IA to align with approved FRP cost estimate. (Estimating)	+279.1	+432.9
Adjustment for current and prior escalation. (Support)	+1.4	+1.8
Net decrease in Other Support due realignment of funds and extending the procurement profile to FY 2026. (Support)	-5.4	-11.8
Net decrease in Initial Spares due to realignment of spares funding to the rephased procurement profile and under funded spares requirements in the FYDP. (Support)	-21.4	-19.8
Procurement Subtotal	+161.2	+364.9

Contracts

Appropriation: Procurement

Contract Name SM-6 LRIP Contract

Contractor Raytheon Missile Systems (RMS)

Contractor Location 1151 East Hermans Road

Tucson, AZ 85731-1337

Contract Number, Type N00024-09-C-5305/0, FPIF

September 04, 2009

July 01, 2010

Award Date
Definitization Date

	Initial Co	ntract Price ((\$M)	Current C	ontract Price	(\$M)	Estimated Pr	rice at Completion (\$M)
	Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
_	368.0	397.4	89	377.2	407.5	92	377.2	377.2

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to contract modification P00015 which added three additional FY 2012 All Up Round missiles in support of the Missile Defense Agency Sea Based Terminal efforts.

Variance	Cost Variance	Schedule Variance
Cumulative Variances To Date (1/24/2014)	+12.9	-13.4
Previous Cumulative Variances	+11.4	+18.7
Net Change	+1.5	-32.1

Cost and Schedule Variance Explanations

The favorable net change in the cost variance is due to Raytheon labor performing more efficiently than planned in the Manufacturing, Program Management and Systems Engineering Teams. Labor expenditures are expected to increase as the monthly quantities of LRIP lot 3 All Up Rounds are built, tested and delivered.

The unfavorable net change in the schedule variance is due to Raytheon work that is behind schedule but being recovered due to early delivery of material. Major subcontract delivery challenges in Supply Chain management related to the Thrust Vector Assembly and Steering Control Sections are also contributing to this negative schedule variance.

Contract Comments

This contract is more than 90% complete; therefore, this is the final report for this contract.

On September 4, 2009, RMS was awarded a letter contract to establish Not-to-Exceed (NTE) prices for the LRIP Contract Line Item Numbers (CLINs). The contract was definitized on July 1, 2010. Contract Option 2 (FY 2011 lot 3) was awarded on June 23, 2011.

The SM-6 Milestone C Acquisition Decision Memorandum (ADM) dated August 24, 2009 authorized LRIP lot 1 plus Long Lead Material (LLM) for FY 2010 (lot 2). The SM-6 LRIP lot 2 ADM dated June 7, 2010 authorized LRIP lot 2 plus LLM for FY 2011 (lot 3). The SM-6 LRIP lot 3 and LLM ADM dated May 13, 2011 authorized LRIP lot 3 plus LLM for FY 2012.

An Integrated Baseline Review (IBR) for FY 2009 lot 1 was successfully conducted in January 2011. A follow-on IBR for FY 2010 lot 2 was successfully conducted in June 2011 and a follow-on IBR for FY 2011 lot 3 was successfully conducted in January 2012.

Appropriation: Procurement

Contract Name SM-6 LRIP 4 Contract

Contractor Raytheon Missile Systems (RMS)

Contractor Location 1151 East Hermans Road

Tucson, AZ 85756

Contract Number, Type N00024-12-C-5401/1, FPIF

Award Date May 10, 2012
Definitization Date July 05, 2013

Initial Co	ntract Price ((\$M)	Current C	ontract Price ((\$M)	Estimated Pr	rice at Completion (\$M)
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
 266.4	279.2	89	266.4	279.2	89	266.4	266.4

Variance	Cost Variance	Schedule Variance
Cumulative Variances To Date (1/24/2014)	-2.9	+39.9
Previous Cumulative Variances		
Net Change	-2.9	+39.9

Cost and Schedule Variance Explanations

The unfavorable cumulative cost variance is due to Raytheon manufacturing team experiencing unfavorable costs for SM-6 unique Circuit Card Assemblies coming in higher than the budgeted cost. Alternatively, Raytheon experienced a favorable cost variance due to the average unit price in the warhead account being less than the budgeted unit price.

The favorable cumulative schedule variance is due to Raytheon manufacturing and configuration management teams being ahead of plan due to the early receipt of material.

Contract Comments

This is the first time this contract is being reported.

On May 10, 2013, RMS was awarded a letter contract to establish Not To Exceed prices for the LRIP lot 4 Contract Line Item Numbers. The contract was definitized on July 5, 2013.

The SM-6 program received authorization to enter into a fourth year of LRIP in FY 2012 as documented in the Aquisition Decision Memorandum dated April 5, 2012.

An Integrated Baseline Review for FY 2014 lot 4 was successfully conducted in November 2013.

Appropriation: Procurement

Contract Name SM-6 FRP Contract

Contractor RMS Missile Systems (RMS)

Contractor Location 1151 Hermans Road Tucson, AZ 85756

Contract Number, Type N00024-13-C-5407/0, FFP

Award Date January 31, 2013
Definitization Date September 26, 2013

Initial Co	ntract Price ((\$M)	Current C	ontract Price	(\$M)	Estimated Pr	rice at Completion (\$M)
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
276.8	N/A	89	276.8	N/A	89	276.8	276.8

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this FFP contract.

Contract Comments

This is the first time this contract is being reported.

On January 31, 2013, RMS was awarded a contract for LLM for the FY 2013 Full Rate Production (FRP) contract. The base contract (FY 2013) was definitized on September 26, 2013.

The SM-6 FRP Acquisition Decision Memorandum dated July 15, 2013 authorized the program to enter into FRP.

Deliveries and Expenditures

Delivered to Date	Plan to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	
Production	69	69	1800	3.83%
Total Program Quantity Delivered	69	69	1800	3.83%

Expended and Appropriated (TY \$M)					
Total Acquisition Cost	10140.4	Years Appropriated	11		
Expended to Date	1310.3	Percent Years Appropriated	47.83%		
Percent Expended	12.92%	Appropriated to Date	2482.6		
Total Funding Years	23	Percent Appropriated	24.48%		

The above data is current as of 2/21/2014.

Operating and Support Cost

SM-6

Assumptions and Ground Rules

Cost Estimate Reference:

Estimate based on the Office of the Secretary of Defense, Cost Assessment and Program Evaluation (OSD, CAPE) Independent Cost Estimate (ICE) dated May 13, 2013.

Sustainment Strategy:

- 1) Since the SM-6 is a wooden round (a concept that pictures a weapon as being completely reliable and, while deployed on board a ship, having an infinite shelf life while at the same time requiring no special handling, storage, surveillance, or maintenance by ships force personnel), Personnel Costs are unnecessary for missile operation.
- 2) The average annual cost per missile assumes 1800 All Up Rounds over a 30 year life cycle.
- 3) Unit Level Consumption includes Range and Target Costs, as well as Post Flight Analysis.
- 4) Intermediate Maintenance consists of Intermediate Level Maintenance facility costs.
- 5) Depot Maintenance includes Depot Maintenance and Refurbishment.
- 6) Sustaining Support includes Sustaining Investment and Software Maintenance.
- 7) Indirect Costs includes Installation and Personnel Support.

Antecedent Information:

There is no Antecedent System for the SM-6 program. The SM-6 program meets a different threat set and demonstrates enhanced capabilities in comparison to the SM-2 program.

Unitized O&S Costs BY2004 \$K					
Cost Element	SM-6 Avg Annual Cost per Missile	No Antecedent (Antecedent)			
Unit-Level Manpower	0.000				
Unit Operations	3.000				
Maintenance	3.200				
Sustaining Support	2.100				
Continuing System Improvements	0.000				
Indirect Support	0.200				
Other	0.000				
Total	8.500				

Unitized Cost Comments:

Cost/Missile/Year based on a 30 year life cycle for 1800 missiles. Differences in Annual Cost per Missile and Total O&S Cost are due to rounding issues.

	Total O&S Cost \$M			
	Current Production APB Objective/Threshold		Current Estimate	
	SM-6		SM-6	No Antecedent (Antecedent)
Base Year	443.0	487.3	460.3	N/A
Then Year	863.9	N/A	845.9	N/A

Total O&S Costs Comments:

The current APB was approved August 9, 2013. O&S is not included in the PAUC calculation.

Disposal Costs:

The Army is responsible for demilitarization of all Department of Defense missile systems at the end of the missile service life, including the STANDARD missile. Disposal costs are not identified at this time.